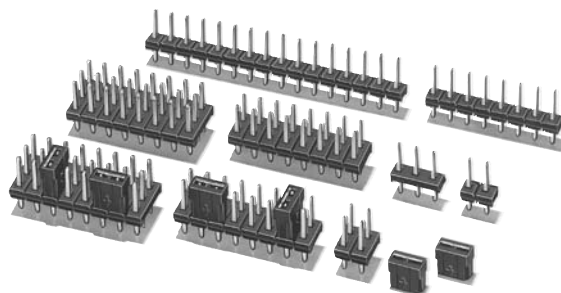


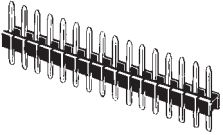
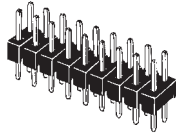
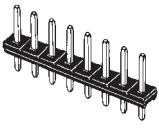
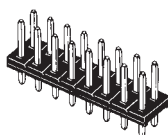
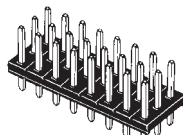
### Low-profile, Economical Circuit Jumper Plugs

- Low profiles that are only 5.8 mm (XJ8) and 6.8 mm (XG8S/T) high on the board.
- 2.54-mm high-density grid can be mounted horizontally or vertically.
- From Single-row up to Triple-row Connectors.
- Through-holes handle 0.8-mm wires.
- Designed for easy insertion and protection against accidental removal.
- Highly-reliable 2-point contacts.
- Thin Plug Housing (XJ8) employs flame-resistant PPS resin.
- See the "Standards certification / conformity list" for information on conformity to certification standards.



**RoHS Compliant**

### Connectors

| Model      | XG8S                                                                                                   | XG8T                                                                                                   | XJ8B                                                                                                   | XJ8C                                                                                                    | XJ8D                                                                                                     | XJ8A                                                                                                   |
|------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Appearance | Single-row Plugs<br> | Double-row Plugs<br> | Single-row Plugs<br> | Double-row Plugs<br> | Triple-row Plugs<br> | Jumper Socket<br> |
| Page       | 2                                                                                                      | 3                                                                                                      | 4                                                                                                      |                                                                                                         |                                                                                                          | 6                                                                                                      |

### Ratings and Characteristics

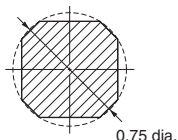
| Item                              | Gold plating                                     | Tin plating |
|-----------------------------------|--------------------------------------------------|-------------|
| Rated voltage                     | 2 A                                              |             |
| Rated current                     | 300 VAC                                          |             |
| Contact resistance                | 20 mΩ max. (at 20 mV, 100 mA max.)               |             |
| Insulation resistance             | 1,000 MΩ min. (at 500 VDC)                       |             |
| Dielectric strength               | 750 VAC for 1 min (leakage current: 1 mA max.)   |             |
| Total insertion force (See note.) | 1.96 N max.                                      | 7.85 N max. |
| Total removal force (See note.)   | 0.39 N min.                                      | 0.98 N min. |
| Insertion durability              | 50 times                                         | 20 times    |
| Ambient operating temperature     | - 55 to 105°C (with no icing at low temperature) |             |

**Note:** Insertion and removal force are for the XJ8A.

### Materials and Finish

| Item     | XJ8A                                                         | XJ8B/C/D                                            | XG8S/T                                            |
|----------|--------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|
| Housing  | Fiber-glass reinforced PBT resin (UL94 V-0)/black or natural | Fiber-glass reinforced PPS resin (UL94 V-0)/black   | Fiber-glass reinforced PBT resin (UL94 V-0)/black |
| Contacts | Phosphor bronze/nickel base, 0.15-μm gold plating            | Brass/nickel base, 0.15-μm gold plating (See note.) | Brass/nickel base, 0.15-μm gold plating           |
|          | Phosphor bronze/nickel base, 2.0-μm tin plating              | ---                                                 | Brass/nickel base, 2.0-μm tin plating             |

### Cross-sectional View of Terminal

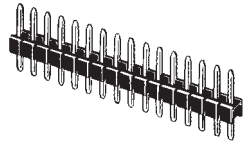
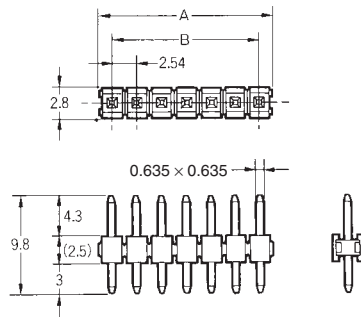
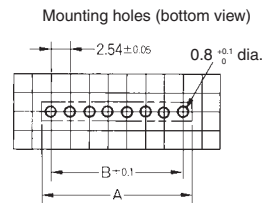


# XG8S Single-row Jumper Plugs

## ■ Dimensions

(unit: mm)

XG8S-□□31 (gold plating)  
XG8S-□□41 (tin plating)



## Dimensions

| No. of contacts | Dimensions (mm) |       |
|-----------------|-----------------|-------|
|                 | A               | B     |
| 2               | 5.1             | 2.54  |
| 3               | 7.6             | 5.08  |
| 4               | 10.2            | 7.62  |
| 6               | 15.2            | 12.70 |
| 8               | 20.3            | 17.78 |
| 16              | 40.6            | 38.10 |
| 18              | 45.7            | 43.18 |

## ■ Ordering Information

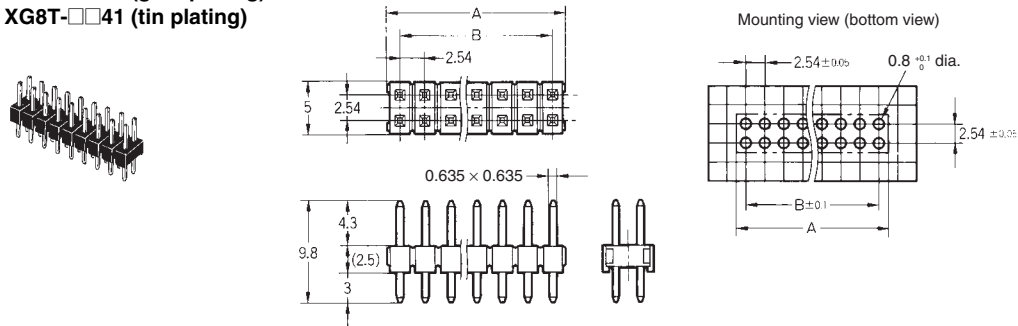
| No. of contacts | Model Plugs with straight terminals |                     |
|-----------------|-------------------------------------|---------------------|
|                 | Model (gold plating)                | Model (tin plating) |
| 2               | XG8S-0231                           | XG8S-0241           |
| 3               | XG8S-0331                           | XG8S-0341           |
| 4               | XG8S-0431                           | XG8S-0441           |
| 6               | XG8S-0631                           | ---                 |
| 8               | XG8S-0831                           | XG8S-0841           |
| 16              | XG8S-1631                           | XG8S-1641           |
| 18              | XG8S-1831                           | ---                 |

# XG8T Double-row Jumper Plugs

## ■ Dimensions

(unit: mm)

XG8T-□□31 (gold plating)  
XG8T-□□41 (tin plating)



## Dimensions

| No. of contacts | Dimensions (mm) |       |
|-----------------|-----------------|-------|
|                 | A               | B     |
| 2               | 2.5             | ---   |
| 4               | 5.1             | 2.54  |
| 6               | 7.6             | 5.08  |
| 8               | 10.2            | 7.62  |
| 10              | 12.7            | 10.16 |
| 12              | 15.2            | 12.70 |
| 14              | 17.8            | 15.24 |
| 16              | 20.3            | 17.78 |
| 18              | 22.9            | 20.32 |
| 20              | 25.4            | 22.86 |

## ■ Ordering Information

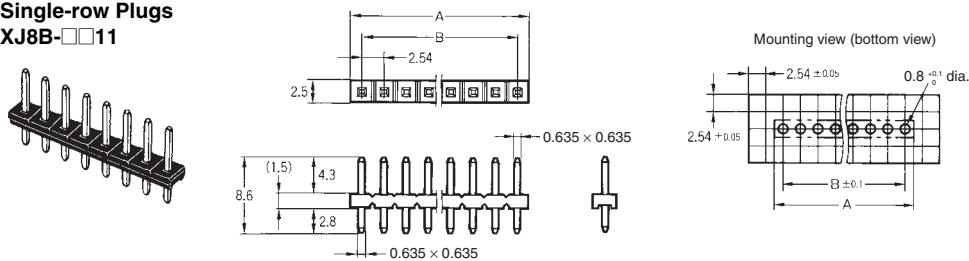
| No. of contacts | Model                |                     |
|-----------------|----------------------|---------------------|
|                 | Model (gold plating) | Model (tin plating) |
| 2               | XG8T-0231            | XG8T-0241           |
| 4               | XG8T-0431            | XG8T-0441           |
| 6               | XG8T-0631            | XG8T-0641           |
| 8               | XG8T-0831            | XG8T-0841           |
| 10              | XG8T-1031            | XG8T-1041           |
| 12              | XG8T-1231            | XG8T-1241           |
| 14              | XG8T-1431            | XG8T-1441           |
| 16              | XG8T-1631            | XG8T-1641           |
| 18              | XG8T-1831            | XG8T-1841           |
| 20              | XG8T-2031            | XG8T-2041           |

# XJ8B/XJ8C/XJ8D Low-profile Single-, Double-, and Triple-row Jumper Plugs

## ■ Dimensions

(unit: mm)

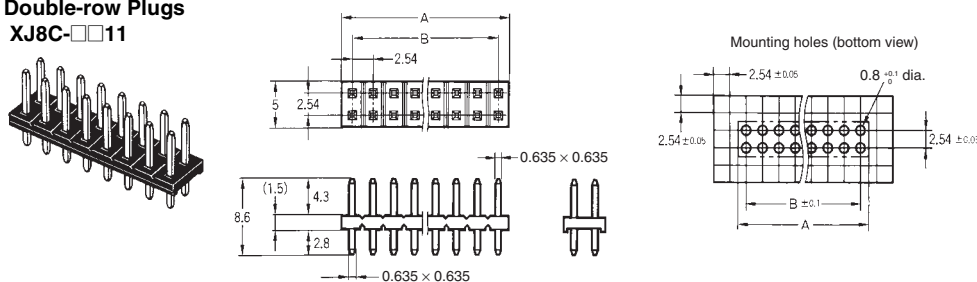
### Single-row Plugs XJ8B-□□11



### Dimensions

| No. of contacts | Dimensions (mm) |       |
|-----------------|-----------------|-------|
|                 | A               | B     |
| 2               | 5.1             | 2.54  |
| 3               | 7.6             | 5.08  |
| 4               | 10.2            | 7.62  |
| 5               | 12.7            | 10.16 |
| 6               | 15.2            | 12.70 |
| 7               | 17.8            | 15.24 |
| 8               | 20.3            | 17.78 |
| 9               | 22.9            | 20.32 |
| 12              | 30.5            | 27.94 |
| 14              | 35.6            | 33.02 |
| 16              | 40.6            | 38.10 |

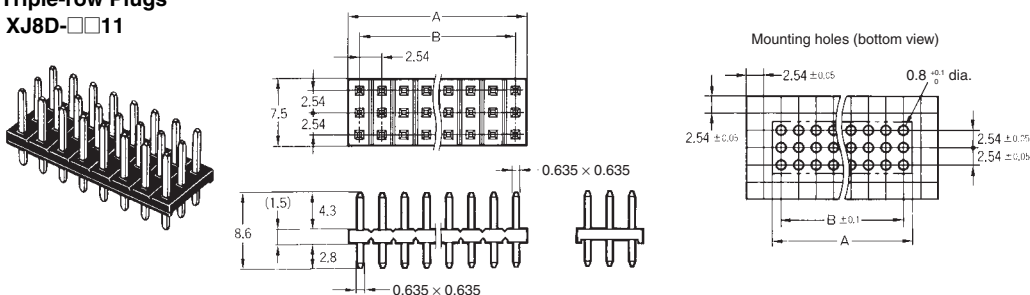
### Double-row Plugs XJ8C-□□11



### Dimensions

| No. of contacts | Dimensions (mm) |       |
|-----------------|-----------------|-------|
|                 | A               | B     |
| 2               | 2.5             | ---   |
| 4               | 5.1             | 2.54  |
| 6               | 7.6             | 5.08  |
| 8               | 10.2            | 7.62  |
| 10              | 12.7            | 10.16 |
| 12              | 15.2            | 12.70 |
| 14              | 17.8            | 15.24 |
| 16              | 20.3            | 17.78 |

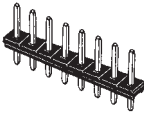
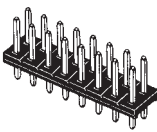
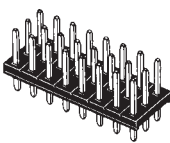
### Triple-row Plugs XJ8D-□□11



### Dimensions

| No. of contacts | Dimensions (mm) |       |
|-----------------|-----------------|-------|
|                 | A               | B     |
| 3               | 2.5             | ---   |
| 6               | 5.1             | 2.54  |
| 9               | 7.6             | 5.08  |
| 12              | 10.2            | 7.62  |
| 15              | 12.7            | 10.16 |
| 18              | 15.2            | 12.70 |
| 21              | 17.8            | 15.24 |
| 24              | 20.3            | 17.78 |

# ■ Ordering Information

| Single-row Plugs                                                                  |                     | Double-row Plugs                                                                  |                     | Triple-row Plugs                                                                    |                     |
|-----------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|---------------------|
|  |                     |  |                     |  |                     |
| No. of contacts                                                                   | Model (gold plated) | No. of contacts                                                                   | Model (gold plated) | No. of contacts                                                                     | Model (gold plated) |
| 2                                                                                 | XJ8B-0211           | 2                                                                                 | XJ8C-0211           | 3                                                                                   | XJ8D-0311           |
| 3                                                                                 | XJ8B-0311           | 4                                                                                 | XJ8C-0411           | 6                                                                                   | XJ8D-0611           |
| 4                                                                                 | XJ8B-0411           | 6                                                                                 | XJ8C-0611           | 9                                                                                   | XJ8D-0911           |
| 5                                                                                 | XJ8B-0511           | 8                                                                                 | XJ8C-0811           | 12                                                                                  | XJ8D-1211           |
| 6                                                                                 | XJ8B-0611           | 10                                                                                | XJ8C-1011           | 15                                                                                  | XJ8D-1511           |
| 7                                                                                 | XJ8B-0711           | 12                                                                                | XJ8C-1211           | 18                                                                                  | XJ8D-1811           |
| 8                                                                                 | XJ8B-0811           | 14                                                                                | XJ8C-1411           | 21                                                                                  | XJ8D-2111           |
| 9                                                                                 | XJ8B-0911           | 16                                                                                | XJ8C-1611           | 24                                                                                  | XJ8D-2411           |
| 12                                                                                | XJ8B-1211           |                                                                                   |                     |                                                                                     |                     |
| 14                                                                                | XJ8B-1411           |                                                                                   |                     |                                                                                     |                     |
| 16                                                                                | XJ8B-1611           |                                                                                   |                     |                                                                                     |                     |

# XJ8A Jumper Socket

## ■ Dimensions

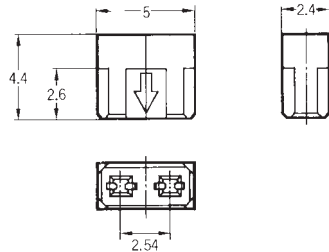
(unit: mm)

### Jumper Socket

XJ8A-0211 (gold plating/black)

XJ8A-0241 (tin plating/black)

XJ8A-0214 (gold plating/natural)



## ■ Ordering Information

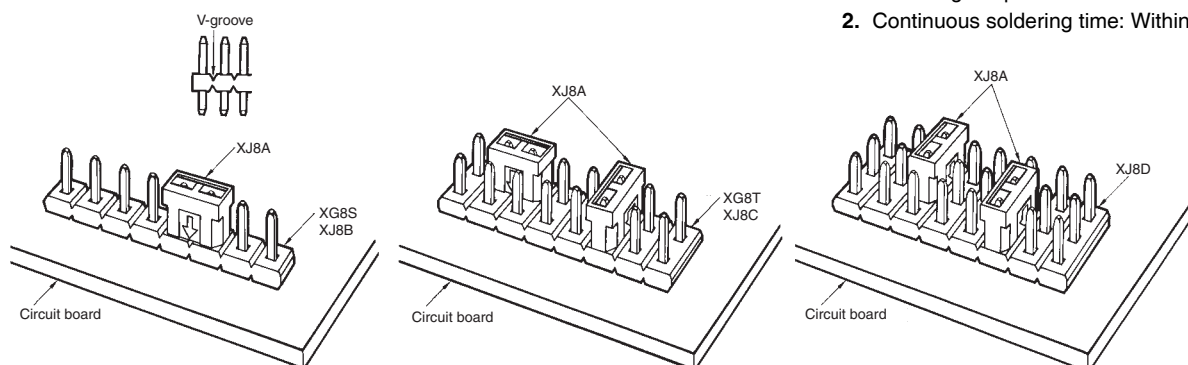
| No. of contacts | Type         |               |           |
|-----------------|--------------|---------------|-----------|
|                 | Plating      | Housing color | Model     |
| 2               | Gold plating | Black         | XJ8A-0211 |
|                 | Tin plating  | Black         | XJ8A-0241 |
|                 | Gold plating | Natural       | XJ8A-0214 |

## ■ Precautions

### Correct Use

- Plugs can be easily cut along the V-groove.
- Jumper Socket should be inserted so that the arrow points down.

### Mounting Example



### Automated Soldering Conditions (Jet Flow)

- Soldering temperature:  $250 \pm 5^{\circ}\text{C}$
- Continuous soldering time: Within  $5 \pm 1$  s

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